

Work Order ID 137209

Thursday, September 24, 2015 1:57:21 PM

137209

Page 1

Item ID: D4324-011 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: Armrest Assembly
 Start Date: 9/23/15 Start Qty: 1.00 ***1*** Cust Item ID:
 Required Date: 9/23/15 Req'd Qty: 1.00 ***1*** Customer:
 Reference:

Approvals: Process Plan: SK **20150928** Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
D4324	B

110 0.00
110
 Small Fab Memo 0.00 1 FF OCT 08 2015
 Small Fab ASSEMBLE PART SHOWN AS PER DWG

120 QC5- Inspect part completeness to step on W/O 0.00
120
 QC Memo 0.00 ① DAS 38 9-89
 Quality Control OCT 13 2015

130 Pick Kit 0.00
130
 Packaging Memo 0.00 DAS 27 9-89
 Packaging PICK AND BAG HARDWARE AS PER DWG AND NOTE 9. OCT 14 2015

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

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Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start *NR1*
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
140	QC4- 100% Inspect kits for completeness	0.00				/			
140								DAS	
QC	Memo	0.00				OCT 20 2014		6	
Quality Control								9-29	
150	Identify as per dwg & Stock Location: <u>St23-5</u>	0.00							
150								DAS	
Packaging	Memo	0.00				OCT 20 2014		6	
Packaging								9-29	
160	QC21- Final Inspection - Work Order Release	0.00							
160									
QC	Memo	0.00							
Quality Control									

20151020

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Description Work Order Deviation				Disposition							
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐		☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due		FAULT CATEGORY ☐ Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter		☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes		☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center		☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence	
				OTHER :							

Picklist Print

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Work Order ID: 137209

137209

Parent Item: D4324-011

D4324-011

Parent Item Name: Armrest Assembly

Start Date: 9/23/15

Required Date: 9/23/15

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev:A 14.04.24 NEW ISSUE DD verf:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
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AN3-4A		Purchased	No			110	Each	198.0000	1	1			
AN3-4A									**		FF	OCT 0 8 2015	
Bolt													

Location	Loc Qty	Loc Code
ST338a	100	
m133234	100	
ST350	98	
m129682	88	
m132317	5	
m133064	5	

D4324-041		Manufactured	No			110	Each	1.0000	1	1			
D4324-041									**		FF	OCT 0 8 2015	
Armrest Weldment													

Location	Loc Qty	Loc Code
94 ST101	1	
122902	1	

D4324-043		Manufactured	No			110	Each	1.0000	1	1			
D4324-043									**		FF	OCT 0 8 2015	
Arm Support Assembly													

Location	Loc Qty	Loc Code
94 ST102	1	
123011	1	

D4324-045		Manufactured	No			110	Each	13.0000	1	1			
D4324-045									**		FF	OCT 0 8	
Cushion Assembly													

Location	Loc Qty	Loc Code
ST455	13	
119006	13	

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Picklist Print

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137209

Parent Item: D4324-011

D4324-011

Parent Item Name: Armrest Assembly

Start Date: 9/23/15

Required Date: 9/23/15

Start Qty: 1.00

Required Qty: 1.00

AN3-4A

Purchased

No

130

Each

198.0000

2

2

AN3-4A

Bolt

DAS
6
9-89

Location

Loc Qty

Loc Code

ST338a

100

m133234

100

ST350

98

m129682

88

m132317

5

m133064

5

**

DAS
27
9-89

AN3-12A

Purchased

No

130

Each

140.0000

1

1

AN3-12A

Bolt

DAS
6
9-89

Location

Loc Qty

Loc Code

GA

18

m129682

18

ST338a

100

m133234

100

ST349

22

m133064

22

**

DAS
27
9-89

MS21075L3

MS21075L3N

Purchased

No

130

Each

148.0000

3

3

MS21075L3

Nut Plate

DAS
6
9-89

Location

Loc Qty

Loc Code

ST300

148

M130281

11

M131153

137

**

DAS
27
OCT 4 2015

m128429

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Shop Packet Print

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Work Order update only ☐

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Picklist Print

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Work Order ID: 137209

137209

Parent Item: D4324-011

D4324-011

Parent Item Name: Armrest Assembly

Start Date: 9/23/15

Required Date: 9/23/15

Start Qty: 1.00

Required Qty: 1.00

MS51861-45C

Purchased

No

110

Each

36.0000

4

4

OCT 08 2015

MS51861-45C

FF

Screw

Location

Loc Qty

Loc Code

GA

36

m128993

36

NAS1149F0332P

Purchased

No

130

Each

1,635.000

3

3

DAS
27
9-89

NAS1149F0332P

Washer

Location

Loc Qty

Loc Code

GA

180

122063

180

ST260a

136

m128401

6

m131026

80

m131697

50

st268

1319

123900

7

m130388

86

m133077

626

m133134

600

M133316

3

NAS1149F0363P

Purchased

No

130

Each

472.0000

1

1

DAS
27
9-89

NAS1149F0363P

WASHER

Location

Loc Qty

Loc Code

ST260a

472

124555

472

1

OCT 14 2015

DAS
6
9-89

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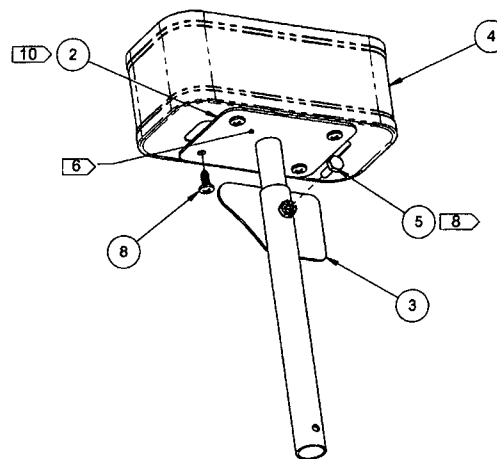
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Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval																																																						
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Root Cause <table style="width:100%; border: none;"> <tr><td>Environment ☐</td><td>No Re-verification ☐</td></tr> <tr><td>Design ☐</td><td>Operator ☐</td></tr> <tr><td>Doc/Data ☐</td><td>Offset/Setup ☐</td></tr> <tr><td>Equip/Tooling ☐</td><td>Supplier ☐</td></tr> <tr><td>Handling/Pre ☐</td><td>Training ☐</td></tr> <tr><td>Material ☐</td><td>Use for Testing ☐</td></tr> <tr><td>Internal Transport ☐</td><td>Poor Information ☐</td></tr> <tr><td>Tribal Knowledge ☐</td><td>Rushing ☐</td></tr> <tr><td>LOA ☐</td><td>Product Improvement ☐</td></tr> <tr><td>Substation ☐</td><td>Process Improvement ☐</td></tr> <tr><td>Past Expiry Date ☐</td><td>Manufacturing Process ☐</td></tr> <tr><td>Misidentified ☐</td><td>Past Due ☐</td></tr> </table>		Environment ☐	No Re-verification ☐	Design ☐	Operator ☐	Doc/Data ☐	Offset/Setup ☐	Equip/Tooling ☐	Supplier ☐	Handling/Pre ☐	Training ☐	Material ☐	Use for Testing ☐	Internal Transport ☐	Poor Information ☐	Tribal Knowledge ☐	Rushing ☐	LOA ☐	Product Improvement ☐	Substation ☐	Process Improvement ☐	Past Expiry Date ☐	Manufacturing Process ☐	Misidentified ☐	Past Due ☐	FAULT CATEGORY <table style="width:100%; border: none;"> <tr> <td style="width:33%;">Pressure/Forced ☐</td> <td style="width:33%;">Temperature/Cure ☐</td> <td style="width:33%;">Power Loss/Surge ☐</td> </tr> <tr> <td>Bending ☐</td> <td>Set-up ☐</td> <td>Folio/Program ☐</td> </tr> <tr> <td>Centre Not Concentric ☐</td> <td>BOM/Route ☐</td> <td>Grain ☐</td> </tr> <tr> <td>Cracks ☐</td> <td>Broken/Damage/Defect ☐</td> <td>Weld ☐</td> </tr> <tr> <td>Crimp/Kink/Ripple/Wave ☐</td> <td>Inspection Incomplete/Unqualified ☐</td> <td>Wrong Stock Pulled ☐</td> </tr> <tr> <td>Cuffs ☐</td> <td>Contamination ☐</td> <td>Out of Sequence ☐</td> </tr> <tr> <td>Crushing ☐</td> <td>Countersink ☐</td> <td>Off-set ☐</td> </tr> <tr> <td>Heat Treat ☐</td> <td>Cut Too Short ☐</td> <td>Mislabeled ☐</td> </tr> <tr> <td>Wave/Twist in Tube ☐</td> <td>Instructions Incomplete/Unclear ☐</td> <td>Fit/Function ☐</td> </tr> <tr> <td>Marks/Chatter ☐</td> <td>Drill Holes ☐</td> <td>Misaligned/off center ☐</td> </tr> </table>						Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Crushing ☐	Countersink ☐	Off-set ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐
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OTHER : ☐																																																													

ITEM	QTY -011	P/N	DESCRIPTION
1	X	D4324-011	ARM REST ASSEMBLY
2	1	D4324-041	ARM REST WELDMENT
3	1	D4324-043	ARM SUPPORT ASSEMBLY
4	1	D4324-045	CUSHION ASSEMBLY
5	3	AN3-4A	BOLT
6	1	AN3-12A	BOLT
7	3	MS21075L3	NUT PLATE
8	4	MS51861-45C	SCREW
9	3	NAS1149F0332P	WASHER
9	10	NAS1149F0363P	WASHER



D4324-011 ARM REST ASSEMBLY
(REF. EAGLE DRAWING No. D2046902 P/N EA20469-16) 

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.1
- 7) WEIGHT: 0.83 lbs
- 8) INSTALL HARDWARE HAND TIGHT ONLY
- 9) BAG LOOSE HARDWARE
- 10) CENTER D4324-041 ON D4324-045 AS SHOWN

RELEASED
2014-04-23

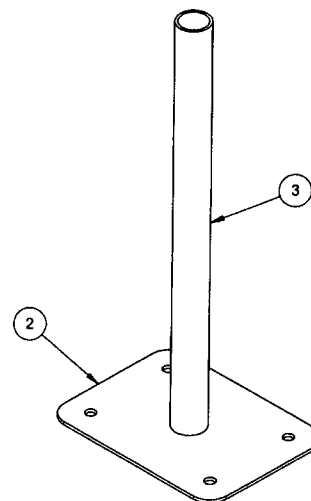
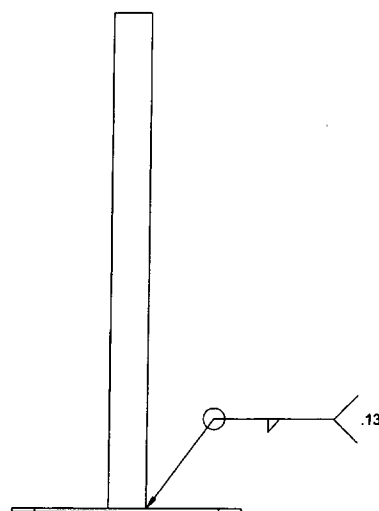
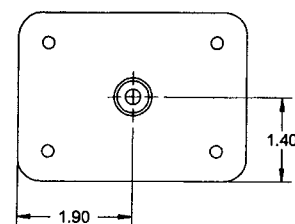
20150929

SH 137209

B	ADD D4324-011 (ZN B4-1) & D4324-045 (ZN B4-4); REVISE D4324-041 NAME (ZN B4-2, D4-2); ADD Ø 0.204 HOLES (ZN D5-5) & Ø 0.25 HOLE (ZN D4-5); 8.30 WAS 8.95 (ZN C5-7); REVISE IDENTIFICATION NOTES, REF PARTS-519	RF	14.04.03
A	NEW ISSUE	RF	11.01.31
REV.	DESCRIPTION	BY	DATE
DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA DRAWING NO. D4324 REV. B SHEET 1 OF 7 SCALE ARM REST ASSEMBLY NTS	
DRAWN	RF		
CHECKED	DC		
MFG. APPR.	DD		
APPROVED	HS		
DE APPR.	DS		
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APPROVED

ITEM	QTY -041	P/N	DESCRIPTION
1	X	D4324-041	ARM REST WELDMENT
2	1	D4324-1	BASE PLATE
3	1	D4324-5	TUBE



D4324-041 ARM REST WELDMENT
(REF. EAGLE DRAWING No. D2046902, PART OF P/N EA20469-16)

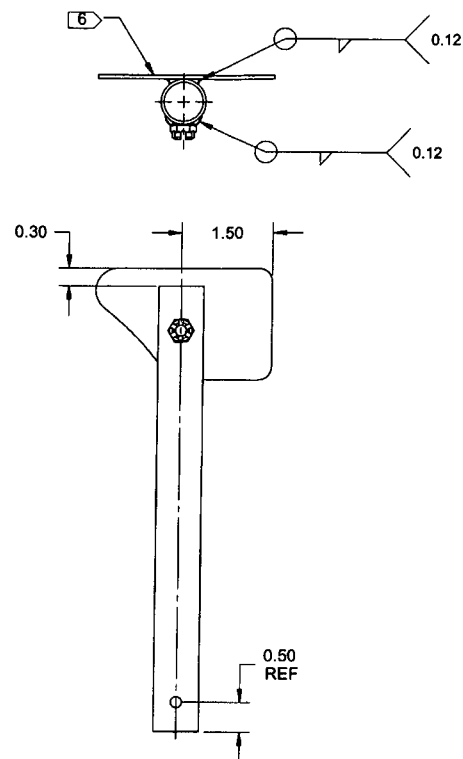
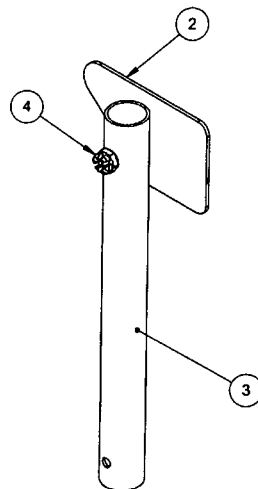
NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.40 lbs
- 8) WELD PER DART QSI 004

DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	DC	DRAWING NO.	REV. B
MFG. APPR.	DD	D4324	SHEET 2 OF 7
APPROVED	HS	TITLE	SCALE
DE APPR.	DS	ARM REST ASSEMBLY	NTS
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ITEM	QTY -043	P/N	DESCRIPTION
1	X	D4324-043	ARM SUPPORT ASSEMBLY
2	1	D4324-3	SUPPORT PLATE
3	1	D4324-7	TUBE
4	1	AN310C3	NUT, CASTELLATED



D4324-043 ARM SUPPORT ASSEMBLY
(REF. EAGLE DRAWING No. D2046902, PART OF P/N EA20469-16)

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.32 lbs
- 8) WELD PER DART QSI 004

APPROVED

DESIGN	RF	DART AEROSPACE LTD	
DRAWN	RF	HAWKESBURY, ONTARIO, CANADA	
CHECKED	DC	DRAWING NO.	REV. B
MFG. APPR.	DD	D4324	SHEET 3 OF 7
APPROVED	HS	TITLE	SCALE
DE APPR.	DS	ARM REST ASSEMBLY	NTS
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2014-04-23

8 7 6 5 4 3 2 1

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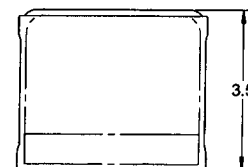
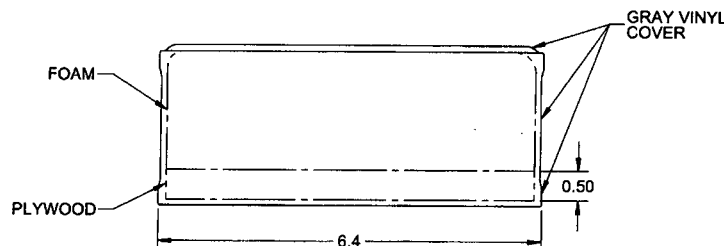
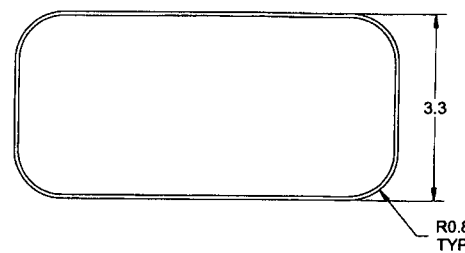
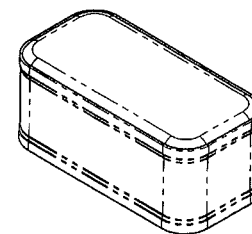
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A



D4324-045 CUSHION ASSEMBLY
(REF. EAGLE DRAWING No. D2046902, PART OF P/N EA20469-16) 

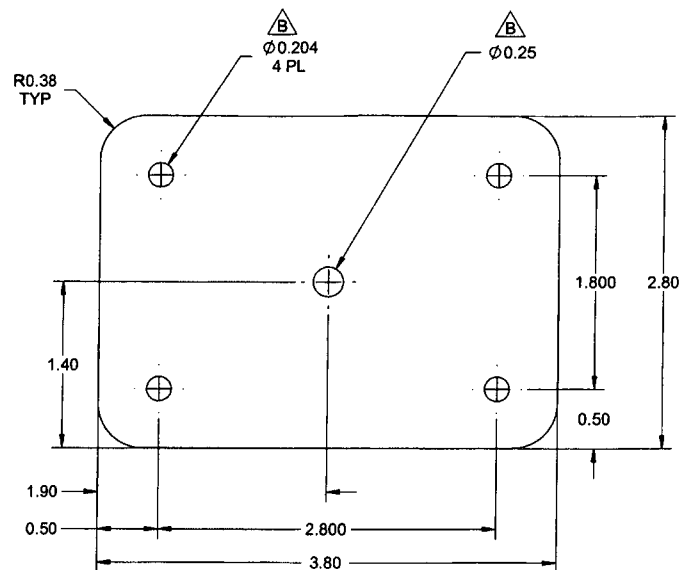
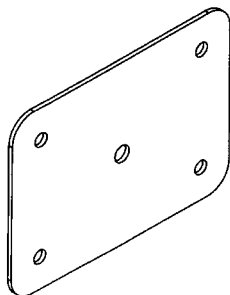
RELEASED
2014-04-23
WD

- NOTES:**
1) MATERIAL: AS SHOWN
2) FINISH: NONE
3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
4) UNITS: INCHES UNLESS OTHERWISE NOTED
5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
6) IDENTIFICATION: N/A
7) WEIGHT: 0.34 lbs

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DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	DC	DRAWING NO.	REV. B
MFG. APPR.	DD	D4324	SHEET 4 OF 7
APPROVED	HS	TITLE	SCALE
DE APPR.	DS	ARM REST ASSEMBLY	NTS
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8 7 6 5 4 3 2 1



D4324-1 BASE PLATE
 (REF. EAGLE DRAWING No. D2046902, PART OF P/N EA20469-16)

NOTES:

- 1) MATERIAL: AISI 304/316 STAINLESS STEEL SHEET, 0.063 (16 GAUGE) THICK
 ANNEALED
 2B FINISH
 PER MIL-S-5059
 OR AMS 5513 (304)
 OR AMS 5524 (316)
 OR ASTM A240
 OR ASME SA240
 REF DART SPEC. M304S16GA
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.19 lbs

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DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	DC	DRAWING NO.	REV. B
MFG. APPR.	DD	D4324	SHEET 5 OF 7
APPROVED	HS	TITLE	SCALE
DE APPR.	DS	ARM REST ASSEMBLY	NTS
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 2014-04-23

8 7 6 5 4 3 2 1

D

C

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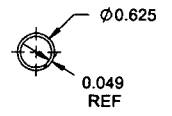
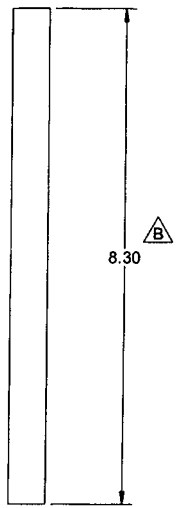
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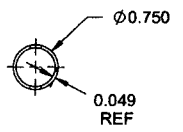
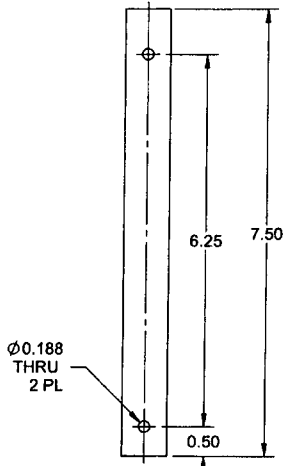
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D4324-5 TUBE



D4324-5 TUBE
(REF. EAGLE DRAWING No. D2046902, PART OF P/N EA20469-16)



D4324-7 TUBE
(REF. EAGLE DRAWING No. D2046902, PART OF P/N EA20469-16)

D4324-7 TUBE

RELEASED
2014-04-23

- NOTES:**
- 1) MATERIAL: AISI 304/316 STAINLESS STEEL ROUND TUBING
PER ASTM A213 OR ASME SA213 OR ASTM A269
REF DART SPEC. M304TR0.625W.049 & M304TR0.75W.049
 - 2) FINISH: NONE
 - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
 - 6) IDENTIFICATION: N/A
 - 7) WEIGHT: D4324-5 = 0.21 lbs
D4324-7 = 0.23 lbs

APPROVED

DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	DC	DRAWING NO.	REV. B
MFG. APPR.	DD	D4324	SHEET 7 OF 7
APPROVED	HS	TITLE	SCALE
DE APPR.	DS	ARM REST ASSEMBLY	NTS
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8 7 6 5 4 3 2 1